

39. "new" A vector comprising the polynucleotide of claim 34.

40. "new" A chimeric gene comprising the polynucleotide of claim 34 operably linked to a regulatory sequence.

41. "new" A method for transforming a cell comprising transforming a cell with the polynucleotide of claim 34.

42. "new" A cell comprising the chimeric gene of claim 40.

44. "new" A method for producing a plant comprising transforming a plant cell with the polynucleotide of claim 34 and regenerating a plant from the transformed plant cell.

45. "new" A plant comprising the chimeric gene of claim 40.

46. "new" A seed comprising the chimeric gene of claim 40.

47. "new" A method for isolating a polypeptide encoded by the polynucleotide of claim 34 comprising isolating the polypeptide from a cell containing a chimeric gene comprising the polynucleotide operably linked to a regulatory sequence.